(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 12 February 2004 (12.02.2004)

PCT

(10) International Publication Number WO 2004/012772 A1

(51) International Patent Classification7: 38/23

A61K 47/18,

(21) International Application Number:

PCT/EP2003/008498

(22) International Filing Date: 31 July 2003 (31.07.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/400,139

1 August 2002 (01.08.2002) US

- (71) Applicant (for all designated States except AT, US): NO-VARTIS AG [CH/CH]; Lichtstrasse 35, CH-4056 Basel (CH).
- (71) Applicant (for AT only): NOVARTIS PHARMA GMBH [AT/AT]; Brunner Strasse 59, A-1230 Vienna (AT).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): AZRIA, Moise [CH/CH]; Bundesplatz 6, CH-4054 Basel (CH). BATE-MAN, Simon, David [GB/US]; 4 Farrington Lane, Randolph, NJ 07869 (US). MCLEOD, James, F. [US/US]; 2 Mark Twain Drive, Morristown, NJ 07960 (US).

- (74) Agent: GRUBB, Philip; Novartis AG, Corporate Intellectual Property, CH-4002 Basel (CH).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LT, LU, LV, MA, MD, MK, MN, MX, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SE, SG, SK, SY, TJ, TM. TN, TR, TT, UA, US, UZ, VC, VN, YU, ZA, ZW.
- (84) Designated States (regional): Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ORAL ADMINISTRATION OF CALCITONIN

(57) Abstract: Disclosed is a particular method of orally administering pharmaceutical compositions comprising calcitonin in combination with oral delivery agents, prior to the consumption of food in humans, and a method of treatment of disorders responsive to the action of calcitonin employing such method of administration; also oral calcitonin pharmaceutical compositions with particular ratios of the amount of oral delivery agent to the amount of calcitonin.

